

Is the term “GROUND WATER” meaningless?

Groundwater Caucus Nov 9, 2011

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Early term describing surface water.

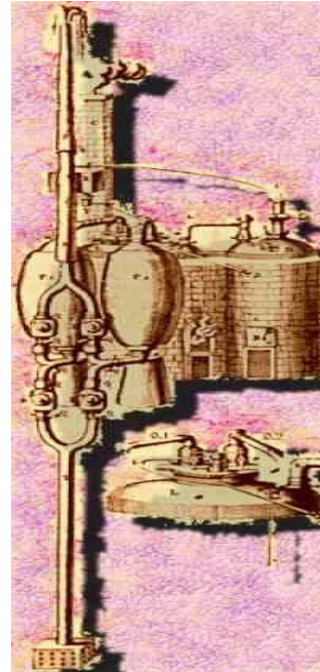


↑
15 million years ago

*Damn, water with teeth!

Seeps
OCEAN
STREAMS
CREEKS
BROOKS
pools
COVES
BAYS
LAGOON
LAKES
HARBORS
GLACIERS
SURFACE WATER
SLOUGHS
WETLANDS
basins
fiords
SWAMPS
SEAS
puddles
RIVERS
SINKS
marshlands
SNOW PACK
Inlets
Reservoirs
SPRINGS
SEEPS

Hand dug wells



**“The Miners Friend
or An Engine To
Raise Water
By Fire”**

*by Thomas Savery
written in 1702*

300 years ago

Approximately 4000 years ago



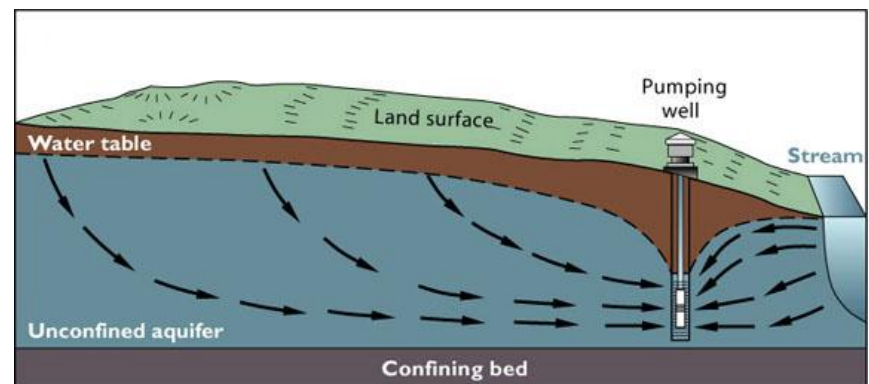
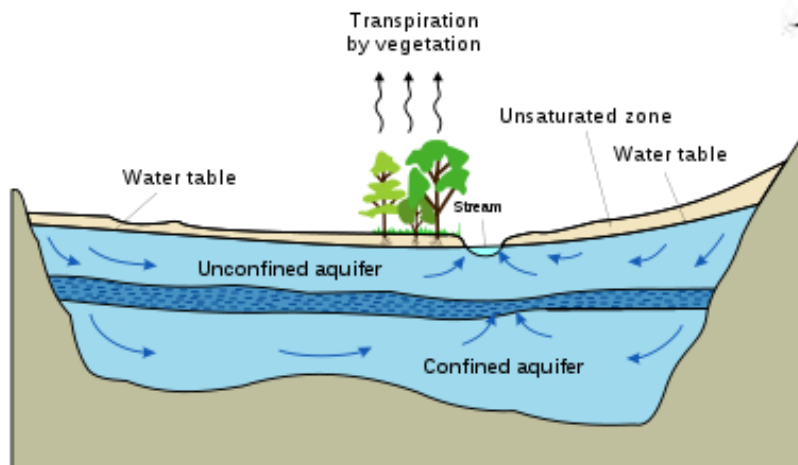
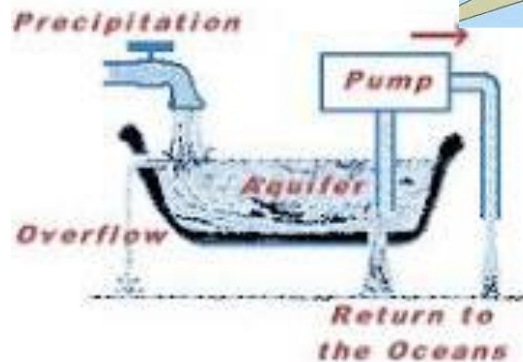
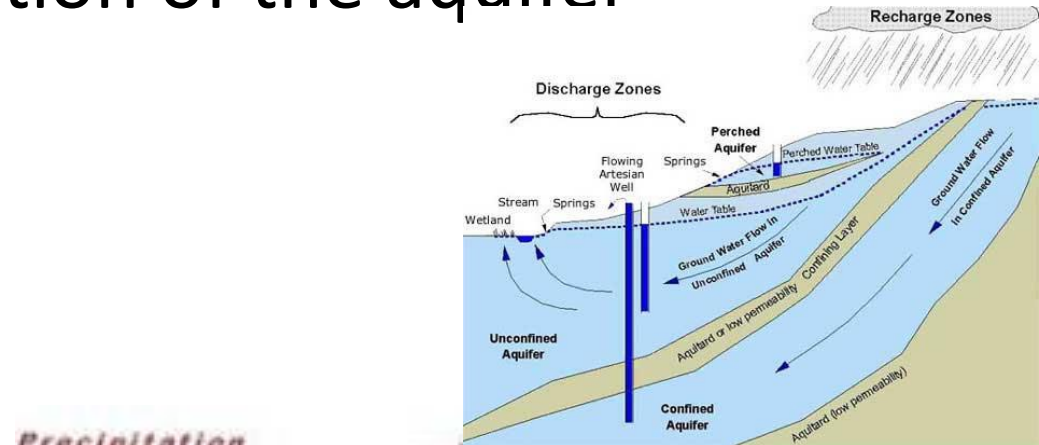
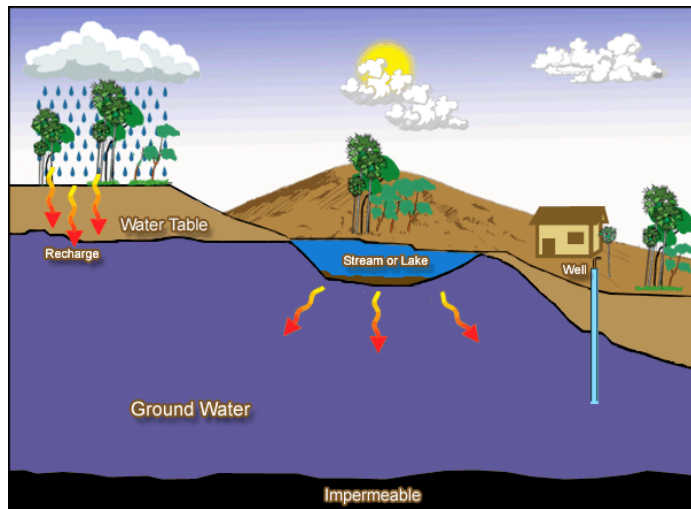
15 million years ago

aquifer


GROUND WATER

Water table

Deliverable 2.1 Provide a brief physical description of the aquifer



Sacramento River (north of Hamilton City)



In the 1960's, Buck Roney told of seeing steam boats tied to these oak trees

The map shows an aerial view of the Sacramento River and surrounding agricultural fields. A yellow arrow points from the text box to a specific area on the riverbank. Other features include a levee, a creek, and several river markers labeled with numbers.

River flowed here in recent memory.

Note: River Marker #204

Recharging a
shallow, unconfined
alluvial ground
water aquifer -



Recharging a deep
confined ground
water aquifer--

Making “GROUND WATER” meaningful in WP13

- **Unconfined, shallow, alluvial** --ground water whose upper water surface (water table) is at atmospheric pressure, and thus is able to rise and fall.
- **Deep, confined** --ground water under pressure significantly greater than atmospheric, confined by layers of impermeable material.